

IN THE CLAIMS

This listing of claims replaces all prior listings:

1. (Currently Amended) An electrolyte, comprising:

an electrolytic solution containing at least one selected from the group consisting of vinylethylene carbonate and its derivatives in the range of 0.05 wt % to 5 wt % in total; and

a polymer,

wherein,

said polymer is gelatinized with said electrolytic solution, and said electrolytic solution is diffused or held within said polymer, ~~and~~

~~said electrolytic solution contains 95 wt % or more of a high dielectric constant solvent combination of ethylene carbonate and propylene carbonate, and~~

said electrolytic solution contains a lithium salt that contains at least one selected from the group consisting of LiClO₄, LiN(C₂F₅SO₂)₂, LiC(CF₃SO₂)₃, LiAlCl₄ and LiSiF₆.

2. (Currently Amended) An electrolyte according to claim 1, wherein ~~the electrolytic solution further contains ethylene carbonate and propylene carbonate with a mass ratio of ethylene carbonate to propylene carbonate ranging from about 15/85 to about 75/25.~~

3. (Currently Amended) An electrolyte according to claim 1, wherein the electrolytic solution further contains a nonaqueous solvent ~~and a lithium salt~~.

4. (Cancelled)

5. (Previously Presented) An electrolyte according to claim 3, wherein the nonaqueous solvent contains any one selected from the group consisting of ethylene carbonate, propylene carbonate, γ -butyrolactone, dimethyl carbonate, diethyl carbonate, ethyl methyl carbonate, dipropyl carbonate, ethyl propyl carbonate, and one wherein hydrogen of carbonic acid esters is substituted with halogen.

6. (Previously Presented) An electrolyte according to claim 1, wherein the polymer contains any one from the group consisting of polyvinylidene fluoride, polyethylene oxide, polypropylene oxide, poly acrylic nitrile, and poly methacrylic nitrile.

7. (Previously Presented) An electrolyte according to claim 1, wherein the polymer is polyvinylidene fluoride or a copolymer in which hexafluoro propylene is introduced in polyvinylidene fluoride.

8. (Currently Amended) A battery comprising:

a cathode;

an anode; and

an electrolyte,

wherein,

the electrolyte contains an electrolytic solution containing at least one from the group consisting of vinylethylene carbonate and its derivatives in the range of 0.05 wt % to 5 wt % in total, and a compound polymer,

said polymer is gelatinized with said electrolytic solution, and said electrolytic solution is diffused or held within said polymer, and

said electrolytic solution contains 95 wt % or more of a high dielectric constant solvent combination of ethylene carbonate and propylene carbonate, and

said electrolytic solution contains a lithium salt that contains at least one selected from the group consisting of LiClO₄, LiN(C₂F₅SO₂)₂, LiC(CF₃SO₂)₃, LiAlCl₄ and LiSiF₆.

9. (Currently Amended) A battery according to claim 8, wherein the electrolytic solution further contains ethylene carbonate and propylene carbonate with a mass ratio of ethylene carbonate to propylene carbonate ranging from about 15/85 to about 75/25.

10. (Currently Amended) A battery according to claim 8, wherein the electrolytic solution further contains a nonaqueous solvent and a lithium salt.

11. (Cancelled)

12. (Previously Presented) A battery according to claim 10, wherein the nonaqueous solvent contains any one selected from the group consisting of ethylene carbonate, propylene carbonate, γ -butyrolactone, dimethyl carbonate, diethyl carbonate, ethyl methyl carbonate, dipropyl carbonate, ethyl propyl carbonate, and one wherein hydrogen of carbonic acid esters is substituted with halogen.

13. (Previously Presented) A battery according to claim 8, wherein the polymer contains any one from the group consisting of polyvinylidene fluoride, polyethylene oxide, polypropylene oxide, poly acrylic nitrile, and poly methacrylic nitrile.

14. (Previously Presented) A battery according to claim 8, wherein the polymer is polyvinylidene fluoride or a copolymer in which hexafluoro propylene is introduced in polyvinylidene fluoride.